Claims

[c1]   What is claimed is:

1.A method for managing data of an optical disc, the optical disc comprising a plurality of data blocks and a plurality of spare blocks arranged in order, each of the data blocks being used to record data, and each of the spare blocks being capable of replacing a corresponding defective data block to record data, the method comprising:

establishing a status table, wherein the status table comprises a plurality of columns arranged in order, and each of the columns is used to record a status of a corresponding spare block; and

recording the statuses of the spare blocks in the status table according to the arranging order of the spare blocks.

[c2]   2.The method of claim 1 wherein when the statuses of a first spare block, of a second spare block, and of a third spare block are respectively recorded in a first column, a second column, and a third column, the second column is located between the first column and the third column, the status of the first spare block is the same as the status of the third spare block, and there is not any data block located between the first spare block and the third spare block, when recording the statuses of the spare blocks in the status table, if the status of the second spare block is changed, the changed status of the second spare block is recorded in one of the columns, which is located between the first column and the third column.

[c3]   3.The method of claim 1 wherein each of the spare blocks could be determined whether the spare block is defective according to the data recorded in the columns.

[c4]   4.The method of claim 1 wherein each of the spare blocks could be determined whether the spare block has been used to replace a corresponding defective data block according to the data recorded in the columns.

[c5]   5.The method of claim 1 for an optical disc drive wherein the optical disc drive comprises a memory for storing the status table while the status table is established.

[c6]   6.The method of claim 1 wherein there is a defective second spare block located between a first spare block and a third spare block, the first spare block and the third spare block are not defective, and there is not any data block located between the first spare block and the third spare block, when recording the statuses of the spare blocks in the status table, the statuses of the first spare block, of the second spare block, and of the third spare block are respectively recorded in a first column, a second column, and a third column, wherein the second column is located between the first column and the third column.